

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/019,341B  
Source: 1FW16  
Date Processed by STIC: 2/10/06

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 02/10/2006

PATENT APPLICATION: US/10/019,341B

TIME: 08:16:44

Input Set : A:\80021-336\_seq\_28\_dec\_2005\_v3.txt

Output Set: N:\CRF4\02102006\J019341B.raw

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3 <110> APPLICANT: Amsterdam Molecular Therapeutics B.V. (AMT)
4     The University of British Columbia
5     Academic Hospital at the University of Amsterdam
7 <120> TITLE OF INVENTION: LPL Variant Therapeutics
9 <130> FILE REFERENCE: 80021-185
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/019,341B
C--> 12 <141> CURRENT FILING DATE: 2002-05-03
14 <150> PRIOR APPLICATION NUMBER: EP99202048.7
15 <151> PRIOR FILING DATE: 1999-06-24
17 <160> NUMBER OF SEQ ID NOS: 6
19 <170> SOFTWARE: PatentIn Ver. 2.0
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 446
23 <212> TYPE: PRT
24 <213> ORGANISM: Homo sapiens
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31           20           25           30
33 Val Ala Glu Ser Val Ala Thr Cys His Phe Asn His Ser Ser Lys Thr
34           35           40           45
36 Phe Met Val Ile His Gly Trp Thr Val Thr Gly Met Tyr Glu Ser Trp
37           50           55           60
39 Val Pro Lys Leu Val Ala Ala Leu Tyr Lys Arg Glu Pro Asp Ser Asn
40   65           70           75           80
42 Val Ile Val Val Asp Trp Leu Ser Arg Ala Gln Glu His Tyr Pro Val
43           85           90           95
45 Ser Ala Gly Tyr Thr Lys Leu Val Gly Gln Asp Val Ala Arg Phe Ile
46           100          105          110
48 Asn Trp Met Glu Glu Glu Phe Asn Tyr Pro Leu Asp Asn Val His Leu
49           115          120          125
51 Leu Gly Tyr Ser Leu Gly Ala His Ala Ala Gly Ile Ala Gly Ser Leu
52           130          135          140
54 Thr Asn Lys Lys Val Asn Arg Ile Thr Gly Leu Asp Pro Ala Gly Pro
55   145          150          155          160
57 Asn Phe Glu Tyr Ala Glu Ala Pro Ser Arg Leu Ser Pro Asp Asp Ala
58           165          170          175
60 Asp Phe Val Asp Val Leu His Thr Phe Thr Arg Gly Ser Pro Gly Arg
61           180          185          190
63 Ser Ile Gly Ile Gln Lys Pro Val Gly His Val Asp Ile Tyr Pro Asn
64           195          200          205
66 Gly Gly Thr Phe Gln Pro Gly Cys Asn Ile Gly Glu Ala Ile Arg Val

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70 225      230      235      240
72 His Glu Arg Ser Ile His Leu Phe Ile Asp Ser Leu Leu Asn Glu Glu
73      245      250      255
75 Asn Pro Ser Lys Ala Tyr Arg Cys Ser Ser Lys Glu Ala Phe Glu Lys
76      260      265      270
78 Gly Leu Cys Leu Ser Cys Arg Lys Asn Arg Cys Asn Asn Leu Gly Tyr
79      275      280      285
81 Glu Ile Asn Lys Val Arg Ala Lys Arg Ser Ser Lys Met Tyr Leu Lys
82      290      295      300
84 Thr Arg Ser Gln Met Pro Tyr Lys Val Phe His Tyr Gln Val Lys Ile
85 305      310      315      320
87 His Phe Ser Gly Thr Glu Ser Glu Thr His Thr Asn Gln Ala Phe Glu
88      325      330      335
90 Ile Ser Leu Tyr Gly Thr Val Ala Glu Ser Glu Asn Ile Pro Phe Thr
91      340      345      350
93 Leu Pro Glu Val Ser Thr Asn Lys Thr Tyr Ser Phe Leu Ile Tyr Thr
94      355      360      365
96 Glu Val Asp Ile Gly Glu Leu Leu Met Leu Lys Leu Lys Trp Lys Ser
97      370      375      380
99 Asp Ser Tyr Phe Ser Trp Ser Asp Trp Trp Ser Ser Pro Gly Phe Ala
100 385      390      395      400
102 Ile Gln Lys Ile Arg Val Lys Ala Gly Glu Thr Gln Lys Lys Val Ile
103      405      410      415
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113 <211> LENGTH: 475
114 <212> TYPE: PRT
115 <213> ORGANISM: Homo sapiens
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122      20      25      30
124 Asp Phe Ile Asp Ile Glu Ser Lys Phe Ala Leu Arg Thr Pro Glu Asp
125      35      40      45
127 Thr Ala Glu Asp Thr Cys His Leu Ile Pro Gly Val Ala Glu Ser Val
128 50      55      60
130 Ala Thr Cys His Phe Asn His Ser Ser Lys Thr Phe Met Val Ile His
131 65      70      75      80
133 Gly Trp Thr Val Thr Gly Met Tyr Glu Ser Trp Val Pro Lys Leu Val
134      85      90      95
136 Ala Ala Leu Tyr Lys Arg Glu Pro Asp Ser Asn Val Ile Val Val Asp
137      100      105      110
139 Trp Leu Ser Arg Ala Gln Glu His Tyr Pro Val Ser Ala Gly Tyr Thr

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140          115          120          125
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145 Glu Phe Asn Tyr Pro Leu Asp Asn Val His Leu Leu Gly Tyr Ser Leu
146 145          150          155          160
148 Gly Ala His Ala Ala Gly Ile Ala Gly Ser Leu Thr Asn Lys Lys Val
149          165          170          175
151 Asn Arg Ile Thr Gly Leu Asp Pro Ala Gly Pro Asn Phe Glu Tyr Ala
152          180          185          190
154 Glu Ala Pro Ser Arg Leu Ser Pro Asp Asp Ala Asp Phe Val Asp Val
155          195          200          205
157 Leu His Thr Phe Thr Arg Gly Ser Pro Gly Arg Ser Ile Gly Ile Gln
158          210          215          220
160 Lys Pro Val Gly His Val Asp Ile Tyr Pro Asn Gly Gly Thr Phe Gln
161 225          230          235          240
163 Pro Gly Cys Asn Ile Gly Glu Ala Ile Arg Val Ile Ala Glu Arg Gly
164          245          250          255
166 Leu Gly Asp Val Asp Gln Leu Val Lys Cys Ser His Glu Arg Ser Ile
167          260          265          270
169 His Leu Phe Ile Asp Ser Leu Leu Asn Glu Glu Asn Pro Ser Lys Ala
170          275          280          285
172 Tyr Arg Cys Ser Ser Lys Glu Ala Phe Glu Lys Gly Leu Cys Leu Ser
173          290          295          300
175 Cys Arg Lys Asn Arg Cys Asn Asn Leu Gly Tyr Glu Ile Asn Lys Val
176 305          310          315          320
178 Arg Ala Lys Arg Ser Ser Lys Met Tyr Leu Lys Thr Arg Ser Gln Met
179          325          330          335
181 Pro Tyr Lys Val Phe His Tyr Gln Val Lys Ile His Phe Ser Gly Thr
182          340          345          350
184 Glu Ser Glu Thr His Thr Asn Gln Ala Phe Glu Ile Ser Leu Tyr Gly
185          355          360          365
187 Thr Val Ala Glu Ser Glu Asn Ile Pro Phe Thr Leu Pro Glu Val Ser
188          370          375          380
190 Thr Asn Lys Thr Tyr Ser Phe Leu Ile Tyr Thr Glu Val Asp Ile Gly
191 385          390          395          400
193 Glu Leu Leu Met Leu Lys Leu Lys Trp Lys Ser Asp Ser Tyr Phe Ser
194          405          410          415
196 Trp Ser Asp Trp Trp Ser Ser Pro Gly Phe Ala Ile Gln Lys Ile Arg
197          420          425          430
199 Val Lys Ala Gly Glu Thr Gln Lys Lys Val Ile Phe Cys Ser Arg Glu
200          435          440          445
202 Lys Val Ser His Leu Gln Lys Gly Lys Ala Pro Ala Val Phe Val Lys
203          450          455          460
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206 465          470          475
209 <210> SEQ ID NO: 3
210 <211> LENGTH: 448
211 <212> TYPE: PRT
212 <213> ORGANISM: Homo sapiens

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Output Set: N:\CRF4\02102006\J019341B.raw

214 &lt;400&gt; SEQUENCE: 3

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215 Ala Asp Gln Arg Arg Asp Phe Ile Asp Ile Glu Ser Lys Phe Ala Leu
216   1           5           10           15
218 Arg Thr Pro Glu Asp Thr Ala Glu Asp Thr Cys His Leu Ile Pro Gly
219           20           25           30
221 Val Ala Glu Ser Val Ala Thr Cys His Phe Asn His Ser Ser Lys Thr
222           35           40           45
224 Phe Met Val Ile His Gly Trp Thr Val Thr Gly Met Tyr Glu Ser Trp
225   50           55           60
227 Val Pro Lys Leu Val Ala Leu Tyr Lys Arg Glu Pro Asp Ser Asn
228  65           70           75           80
230 Val Ile Val Val Asp Trp Leu Ser Arg Ala Gln Glu His Tyr Pro Val
231           85           90           95
233 Ser Ala Gly Tyr Thr Lys Leu Val Gly Gln Asp Val Ala Arg Phe Ile
234           100          105          110
236 Asn Trp Met Glu Glu Glu Phe Asn Tyr Pro Leu Asp Asn Val His Leu
237           115          120          125
239 Leu Gly Tyr Ser Leu Gly Ala His Ala Ala Gly Ile Ala Gly Ser Leu
240           130          135          140
242 Thr Asn Lys Lys Val Asn Arg Ile Thr Gly Leu Asp Pro Ala Gly Pro
243 145           150          155          160
245 Asn Phe Glu Tyr Ala Glu Ala Pro Ser Arg Leu Ser Pro Asp Asp Ala
246           165          170          175
248 Asp Phe Val Asp Val Leu His Thr Phe Thr Arg Gly Ser Pro Gly Arg
249           180          185          190
251 Ser Ile Gly Ile Gln Lys Pro Val Gly His Val Asp Ile Tyr Pro Asn
252           195          200          205
254 Gly Gly Thr Phe Gln Pro Gly Cys Asn Ile Gly Glu Ala Ile Arg Val
255           210          215          220
257 Ile Ala Glu Arg Gly Leu Gly Asp Val Asp Gln Leu Val Lys Cys Ser
258 225           230          235          240
260 His Glu Arg Ser Ile His Leu Phe Ile Asp Ser Leu Leu Asn Glu Glu
261           245          250          255
263 Asn Pro Ser Lys Ala Tyr Arg Cys Ser Ser Lys Glu Ala Phe Glu Lys
264           260          265          270
266 Gly Leu Cys Leu Ser Cys Arg Lys Asn Arg Cys Asn Asn Leu Gly Tyr
267           275          280          285
269 Glu Ile Asn Lys Val Arg Ala Lys Arg Ser Ser Lys Met Tyr Leu Lys
270           290          295          300
272 Thr Arg Ser Gln Met Pro Tyr Lys Val Phe His Tyr Gln Val Lys Ile
273 305           310          315          320
275 His Phe Ser Gly Thr Glu Ser Glu Thr His Thr Asn Gln Ala Phe Glu
276           325          330          335
278 Ile Ser Leu Tyr Gly Thr Val Ala Glu Ser Glu Asn Ile Pro Phe Thr
279           340          345          350
281 Leu Pro Glu Val Ser Thr Asn Lys Thr Tyr Ser Phe Leu Ile Tyr Thr
282           355          360          365
284 Glu Val Asp Ile Gly Glu Leu Leu Met Leu Lys Leu Lys Trp Lys Ser
285           370          375          380

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Input Set : A:\80021-336\_seq\_28\_dec\_2005\_v3.txt

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287 Asp Ser Tyr Phe Ser Trp Ser Asp Trp Trp Ser Ser Pro Gly Phe Ala
288 385                      390                      395                      400
290 Ile Gln Lys Ile Arg Val Lys Ala Gly Glu Thr Gln Lys Lys Val Ile
291                      405                      410                      415
293 Phe Cys Ser Arg Glu Lys Val Ser His Leu Gln Lys Gly Lys Ala Pro
294                      420                      425                      430
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302 <213> ORGANISM: Homo sapiens
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307 cggctcatca gtcggtccgc gccttgtagc tctccagag ggacgcgccc cgagatggag 180
308 agcaaaagccc tgctcgtgct gactctggcc gtgtggctcc agagtctgac cgctctccgc 240
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310 ctaaggaccc ctgaagacac agctgaggac acttgccacc tcattcccgg agtagcagag 360
311 tccgtggcta cctgtcattt caatcacagc agcaaaacct tcatggtgat ccatggctgg 420
312 acggtaacag gaatgtatga gagttgggtg caaaacttg tggccgccct gtacaagaga 480
313 gaaccagact ccaatgtcat tgtgtgggac tggctgtcac gggctcagga gcattacca 540
314 gtgtccgcgg gctacaccaa actggtggga caggatgtgg cccggtttat caactggatg 600
315 gaggaggagt ttaactaccc tctggacaat gtccatctct tgggatacag ccttggagcc 660
316 catgctgctg gcattgcagg aagtctgacc aataagaaa g tcaacagaat tactggcctc 720
317 gatccagctg gacctaactt tgagtatgca gaagccccga gtcgtctttc tctgatgat 780
318 gcagattttg tagacgtctt acacacattc accagagggt cccctggctg aagcattgga 840
319 atccagaaac cagttgggca tgttgacatt taccgaatg gaggtacttt tcagccagga 900
320 tgtaacattg gagaagctat ccgctgatt gcagagagag gacttggaga tgtggaccag 960
321 ctagtgaagt gctcccacga gcgctccatt catctcttca tcgactctct gttgaatgaa 1020
322 gaaaatccaa gtaaggccta caggtgacgt tccaaggaa cctttgagaa agggctctgc 1080
323 ttgagttgta gaaagaaccg ctgcaacaat ctgggctatg agatcaataa agtcagagcc 1140
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327 gtttccacaa ataagacctt ctcttctcta atttacacag aggtagatat tggagaacta 1380
328 ctcatgttga agctcaaag gaagagtgat tcatacttta gctggtcaga ctgggtggagc 1440
329 agtcccggct tcgccattca gaagatcaga gtaaaagcag gagagactca gaaaagggtg 1500
330 atcttctgtt ctagggagaa agtgtctcat ttgcagaaag gaaaggcacc tgcggtattt 1560
331 gtgaaatgcc atgacaagtc tctgaataag aagtcagggt gaaactgggc gaatctacag 1620
332 aacaaagaac ggcattgtgaa ttctgtgaag aatgaagtgg aggaagtaac ttttacaaaa 1680
333 cataccagct gtttgggggtg tttcaaaagt ggattttcct gaatattaat cccagcccta 1740
334 cccttgtagg ttatttttagg agacagtctc aagcactaaa aagtggctaa ttcaatttat 1800
335 ggggtatagt ggccaaatag cacatcctcc aacgttaaaa gacagtggat catgaaaagt 1860
336 gctgttttgt cctttgagaa agaaataatt gtttgagcgc agagtaaaat aaggctcctt 1920
337 catgtggcgt attgggcat agcctataat tggttagaac ctctattttt aattggaatt 1980
338 ctggatcttt cggactgagg ccttctcaaa ctttactcta agtctccaag aatacagaaa 2040
339 atgcttttcc gcggcacgaa tcagactcat ctacacagca gtatgaatga tgttttagaa 2100
340 tgattccctc ttgctatttg aatgtgggtc agacgtcaac caggaacatg taacttggag 2160

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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 02/10/2006  
PATENT APPLICATION:   US/10/019,341B      TIME: 08:16:45

Input Set : A:\80021-336\_seq\_28\_dec\_2005\_v3.txt  
Output Set: N:\CRF4\02102006\J019341B.raw

**Invalid Line Length:**

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:1; Line(s) 24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43  
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**Invalid <213> Response:**

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:5,6

VERIFICATION SUMMARY

DATE: 02/10/2006

PATENT APPLICATION: US/10/019,341B

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Input Set : A:\80021-336\_seq\_28\_dec\_2005\_v3.txt

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L:11 M:270 C: Current Application Number differs, Replaced Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date